

Atty Docket No. 015258-017610US

PTO FAX NO.: **1 703 872-9311**ATTENTION: Examiner Staicovici, S.  
TELEPHONE NO.:

Group Art Unit 1732

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**FOR THE PERSONAL ATTENTION OF**  
**EXAMINER Staicovici, S.**

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I hereby certify that the following document(s) in re Application of ANDREAS WALDER, Application No. 09/082,309, filed May 20, 1998 for METHOD OF THE PRODUCTION OF EXPANDABLE PLASTICS GRANULATE is being facsimile transmitted to the Patent and Trademark Office on the date shown below.

Document(s) Attached

1. Reply

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By: Kevin T. LeMond

PATENT  
Attorney Docket No.: 015258-017610US  
Client Ref. No.: P.6623

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

ANDREAS WALDER

Application No.: 09/082,309

Filed: May 20, 1998

For: METHOD OF THE PRODUCTION  
OF EXPANDABLE PLASTICS  
GRANULATE

Examiner: Staicovici, S.

Art Unit: 1732

REPLY PURSUANT TO 37 C.F.R. § 1.193

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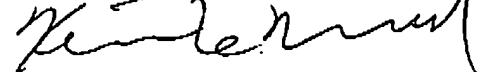
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Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

In response to the Examiner's "ORDER RETURNING UNDOCKETED APPEAL TO EXAMINER" of June 21, 2002, Appellant submits herewith an Appendix for the claims on Appeal.

Respectfully submitted,



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SF 1367202 v1

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APPENDIX: CLAIMS ON APPEAL

1           16. A method, which does not use extruders, for the production of  
2 expandable plastics granulate from a plastics melt and a fluid blowing agent that is, when  
3 at a pressure within a predetermined pressure range, only partly soluble in the melt, the  
4 method comprising the steps of:

5           dispersing the blowing agent in the melt with shearing of the melt thereby  
6 creating a mixture;

7           retaining the mixture within a predetermined pressure range for a  
8 predetermined retention time;

9           subjecting the mixture to less shearing, with respect to the shearing during  
10 the dispersing step, during the predetermined retention time;

11           cooling the mixture to a temperature that is above the solidification  
12 temperature of the melt;

13           granulating the cooled mixture; and

14           acting on the mixture with static mixer elements; and

15           wherein the dispensing of the blowing agent and the retaining of the  
16 mixture is carried out in a single apparatus in which the mixture is acted upon  
17 continuously by means of the static mixing elements as the mixture moves through the  
18 apparatus for avoiding segregation.

1           17. The method of claim 16 wherein the cooling is performed at least  
2 partly by components that also act on the mixture for static mixing.

1           18. The method of claim 17 wherein the cooling is performed in a static mixer  
2 having elements crossing each other and formed as heat exchanging pipes.

1           19. The method of claim 16 further comprising forming the mixture after  
2 cooling to form strands and chilling formed strands with a coolant.

1           20. The method of claim 19 wherein the chilling is performed with water.

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- 1                   21. The method of claim 19 further comprising forming the formed  
2                   strands into granules by disintegration.
- 1                   22. The method of claim 16 further comprising adding at least one additive to the  
2                   melt.
- 1                   23. The method of claim 16 wherein a pressure drop during the dispersing step is  
2                   larger than a pressure drop during the retaining step.
- 1                   24. The method of claim 23 further comprising increasing the pressure which the  
2                   melt is subjected to in-between the dispersing step and the retaining step.
- 1                   25. The method of claim 16 wherein a pressure drop during the cooling step is  
2                   larger than a pressure drop during the retaining step.
- 1                   26. The method of claim 25 further comprising increasing the pressure which the  
2                   melt is subjected to in-between the retaining step and the cooling step.
- 1                   27. Canceled.
- 1                   28. The method of claim 16 wherein the dispersing step is performed in a  
2                   first static mixer and the retaining step is performed in a second static mixer.
- 1                   29. The method of claim 28 further comprising pumping the mixture into  
2                   a third static mixer having elements crossing each other and formed as heat exchanging  
3                   pipes for performing the cooling step.

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